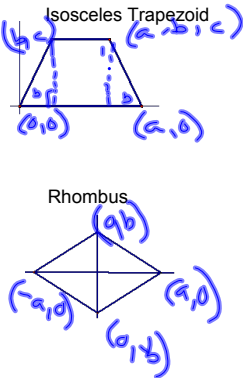
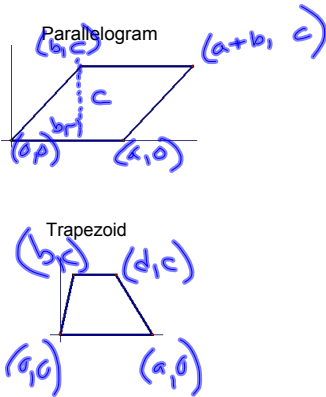
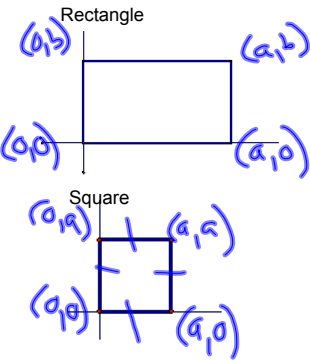
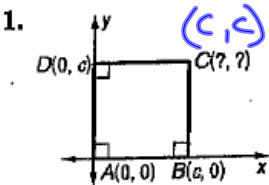
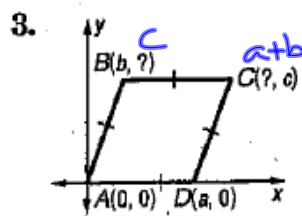
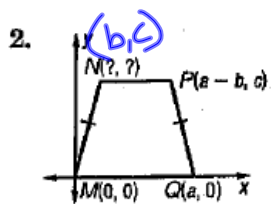


8-7 Coordinate Proof with Quadrilaterals

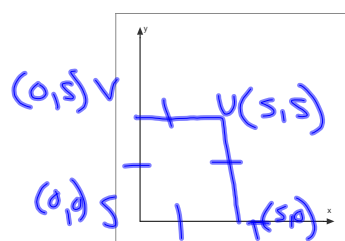


Worksheet

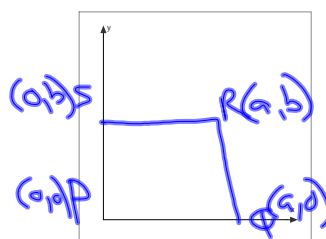




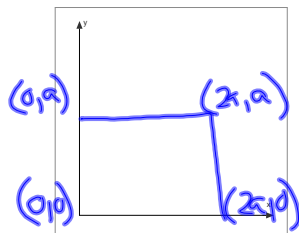
4. square $STUV$ with side s units



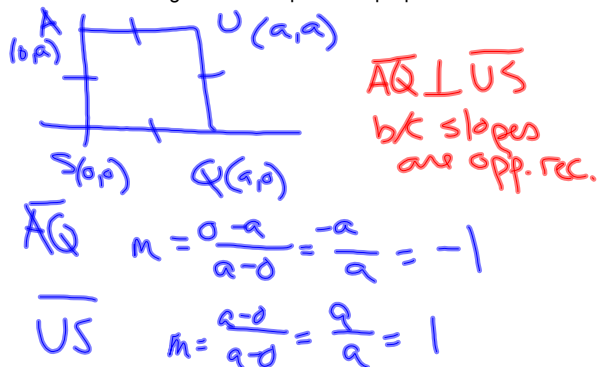
5. parallelogram $PQRS$ with congruent diagonals



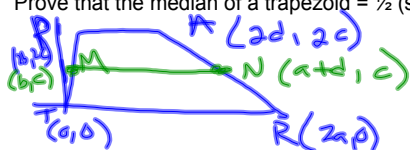
6. rectangle $ABCD$ with length twice the width



Prove that the diagonals of a square are perpendicular



Prove that the median of a trapezoid = $\frac{1}{2}$ (sum of bases)



$$MN = \sqrt{(a+b)^2 + (c-c)^2} = a+b$$

$$TR = \sqrt{(2a-0)^2 + (0-0)^2} = 2a$$

$$PS = \sqrt{(2a-2b)^2 + (2c-2c)^2} = 2a-2b$$

$$MN = \frac{1}{2}(TR+PS)$$

$$a+b = \frac{1}{2}(2a+2a-2b)$$

$$a+b = a+b \quad \checkmark$$

p450
11-17, 19, 20